5-28-02

OIPE

RAW SEQUENCE LISTING   DATE: 07/19/2001
PATENT APPLICATION: US/09/869,894   TIME: 12:28:06

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\07192001\I869894.raw   **ENTERED**

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      4 <110> APPLICANT: Ackermann, Elizabeth J.
      5        Bennett, C. Frank
      6        Dean, Nicholas M.
      7        Marcusson, Eric G.
      8        Isis Pharmaceuticals, Inc.
     10 <120> TITLE OF INVENTION: Antisense Modulation of Novel Anti-apoptotic bcl-2-Related
     11        Proteins
W--> 12 <130> FILE REFERENCE: ISPH-0432
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/869,894
C--> 15 <141> CURRENT FILING DATE: 2001-07-06
     17 <150> PRIOR APPLICATION NUMBER: 09/226,568
     18 <151> PRIOR FILING DATE: 1999-01-07
     20 <160> NUMBER OF SEQ ID NOS: 40
     22 <170> SOFTWARE: PatentIn Ver. 2.0
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     25 <211> LENGTH: 780
     26 <212> TYPE: DNA
     27 <213> ORGANISM: Homo sapiens
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     33     gactatctgc agtgcgtcct acagatacca caacctggat caggtccaag caaaacgtcc   180
     34     agagtgctac aaaatgttgc gttctcagtc caaaaagaag tggaaaagaa tctgaagtca   240
     35     tgcttggaca atgttaatgt tgtgtccgta gacactgcca gaacactatt caaccaagtg   300
     36     atggaaaagg agtttgaaga cggcatcatt aactggggaa gaattgtaac catatttgca   360
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     38     tataaggaga tttcatattt tgttgcggag ttcataatga ataacacagg agaatggata   480
     39     aggcaaaacg gaggctggga aaatggcttt gtaaagaagt ttgaacctaa atctggctgg   540
     40     atgacttttc tagaagttac aggaaagatc tgtgaaatgc tatctctcct gaagcaatac   600
     41     tgttgaccag aaaggacact ccatattgtg aaaccggcct aattttctg actgatatgg    660
     42     aaacgattgc caacacatac ttctactttt aaataaacaa ctttgatgat gtaacttgac   720
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     58 <212> TYPE: DNA
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 72 <220> FEATURE:
 73 <223> OTHER INFORMATION: Description of Artificial Sequence: antisense sequence
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 79 <211> LENGTH: 20
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 91 <212> TYPE: DNA
 92 <213> ORGANISM: Artificial Sequence
 94 <220> FEATURE:
 95 <223> OTHER INFORMATION: Description of Artificial Sequence: antisense sequence
 97 <400> SEQUENCE: 6
 98     ctgtaaatat atccaaattc                                        20
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 20
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106 <223> OTHER INFORMATION: Description of Artificial Sequence: antisense sequence
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125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence: antisense sequence
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144 <210> SEQ ID NO: 11
145 <211> LENGTH: 20
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence: antisense sequence
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169 <213> ORGANISM: Artificial Sequence
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221 <210> SEQ ID NO: 18
222 <211> LENGTH: 3934
223 <212> TYPE: DNA
224 <213> ORGANISM: Homo sapiens
226 <220> FEATURE:
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232     ttgggggccg gcagcggcgg cgccacccgc ccgggagggc gactttggc tacggagaag  180
233     gaggcctcgg cccggcgaga dataggggga ggggaggccg gcgcggtgat tggcggaagc  240
234     gccggcgcaa gcccccccgtc caccctcacg ccagactccc ggagggtcgc gcggccgccg  300
235     cccattggcg ccgaggtccc cgacgtcacc gcgaccccccg cgaggctgct tttcttcgcg  360
236     cccacccgcc gcgcggcgcc gcttgaggag atggaagccc cggccgctga cgccatcatg  420
237     tcgcccgaag aggagctgga cgggtacgag ccggagcctc tcgggaagcg gccggctgtc  480
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240     attatctctc ggtaccttcg ggagcaggcc accggcgcca aggacacaaa gccaatgggc  660
241     aggtctgggg ccaccagcag gaaggcgctg gagaccttac gacgggttgg ggatggcgtg  720
242     cagcgcaacc acgagacggt cttccaaggc atgcttcgga aactggacat caaaaacgaa  780
243     gacgatgtga aatcgttgtc tcgagtgatg atccatgttt tcagcgacgg cgtaacaaac  840
244     tggggcagga ttgtgactct catttctttt ggtgcctttg tggctaaaca cttgaagacc  900
245     ataaaccaag aaagctgcat cgaaccatta gcagaaagta tcacagacgt tctcgtaagg  960
246     acaaacgggg actggctagt taaacaaaga ggctgggatg ggtttgtgga gttcttccat  1020
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248     gtaggagctg gtttggcata tctaataaga tagccttact gtaagtgcaa tagttgactt  1140
249     ttaaccaacc accaccacca ccaaaaccag tttatgcagt tggactccaa gctgtaactt  1200
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254     gccagtagcc aggcaagtca tagaattgat tacccgccga attcattaat ttactgtagt  1500
255     agtgttaaga gaagcactaa gaatgccagt gacctgtgta aaagttacaa gtaatagaac  1560
256     tatgactgta agcctcagta ctgtacaagg gaagcttttc ctctctctaa ttagctttcc  1620
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259    cagtaattag ttatgaatat ggatatcctc aattcttaag acagcttgta aatgtatttg  1800
260    taaaaattgt atatattttt acagaaagtc tatttccttg aaacgaagga agtatcgaat  1860
261    ttacattagt ttttttcata cccttttgaa ctttgcaact tccgtaatta ggaacctgtt  1920
262    tcttacagct tttctatgct aaactttgtt ctgttcagtt ctagagtgta tacagaacga  1980
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264    ttaaattttc ttatctgatt ttggtaagta ttccttagat aggttttctt tgaaaacctg  2100
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267    aatactcatt tgagttcctt ccatttgacc taatttaact ggtgaaattt aaagtgaatt  2280
268    catgggctca tctttaaagc ttttactaaa agattttcag ctgaatggaa ctcattagct  2340
269    gtgtgcatat aaaaagatca catcaggtgg atggagagac atttgatccc ttgtttgctt  2400
270    aataaattat aaaatgatgg cttggaaaag caggctagtc taaccatggt gctattatta  2460
271    ggcttgcttg ttacacacac aggtctaagc ctagtatgtc aataaagcaa atacttactg  2520
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288    tgtggaaata cagacaagga cttagttgat attttgggct tggggcagtg agggcttagg  3540
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294    caactacaaa ttaatgttgg ttgtcaaatg tagtgtgttt ccctaacttt ctgttttttcc  3900
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VERIFICATION SUMMARY   DATE: 07/19/2001
PATENT APPLICATION: **US/09/869,894**   TIME: 12:28:07

Input Set : **A:\PTO_VSK.txt**
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L:14 M:270 C: Current Application Number differs, Replaced Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date